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(71) Applicant (*for all designated States except US*): ELIOTT COMPANY [US/US]; 901 North Fourth Street, Jeannette, PA 15644-1473 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): LI, Jiming [CN/US]; 140 Monticello Drive, Monroeville, PA 15146 (US). DE CHOUDHURY, Pranabesh [US/US]; 1354 Conway Street, Greensburg, PA 15601 (US).

(74) Agents: BYRNE, Richard, L. et al.; Webb Ziesenhein Logsdon Orkin & Hanson, 700 Koppers Building, 436 Seventh Avenue, Pittsburgh, PA 15219-1818 (US).

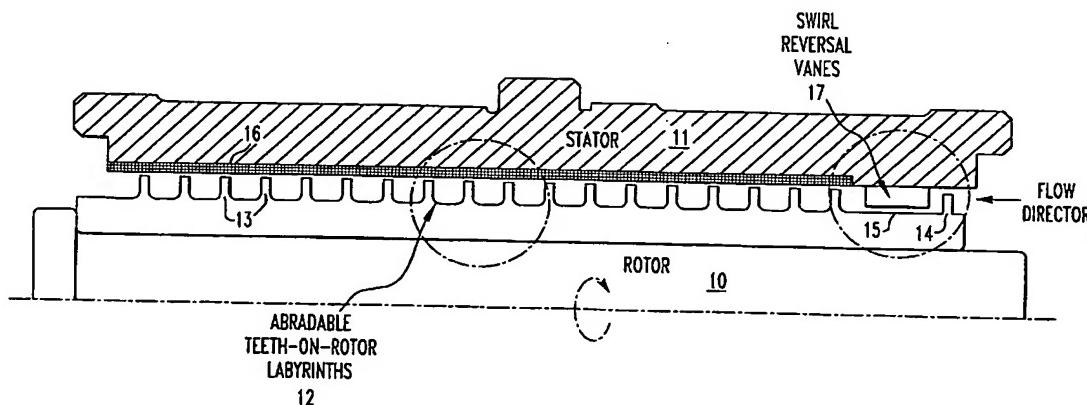
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(54) Title: SWIRL-REVERSAL ABRADABLE LABYRINTH SEAL



(57) Abstract: An apparatus for restricting axial flow through the clearance between a rotating shaft and a seal stator comprises an abradable labyrinth seal and swirl-reversal vanes upstream of the labyrinth seal. The shaft comprises a first toothed axial section having a plurality of annular teeth, a second upstream toothed axial section having a few annular teeth from one to three, and a section therebetween having a cylindrical surface of diameter less than the outer edge of the teeth of the toothed sections, the swirl-reversing vanes being fastened to the stator seal between the toothed sections.

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